## Index of Claims

Application/Control No.

Applicant(s)/Patent under Reexamination

10/538,246 Examiner

MORARIU ET AL.

/Yonel Beaulieu/

Art Unit 3661

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| Original                                  | 1/30/08 |   |     |   |   |  |   |
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|-------|----------|---------|----------|---|----------|-----|----------|--------|---------------|----------|-------|----------|---|---------------|------------|----------|---------------|---------------|----------|---------|---|-----------|------------|---------------|---------|----------|----------|---------------|---------------|----------|----------|
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| Final | <u>:</u> | 8       | Н        |   |          |     |          |        |               |          | Final | <u>.</u> |   |               | - 1        |          |               | - 1           | - 1      |         |   | Final     | : <u>B</u> |               |         |          |          |               |               |          |          |
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| -     | -        | =       | Н        | _ |          | Н   | Н        | Н      | $\rightarrow$ | -        | F.4   |          | - | $\dashv$      | $\dashv$   | $\dashv$ | -             | $\dashv$      | +        | +       | - | $\vdash$  | 101        | $\rightarrow$ | +       | +        | ⊢        | $\vdash$      | $\dashv$      | -        | $\dashv$ |
| 1     | 1        |         | -        | _ | _        | Н   | H        | Н      | $\rightarrow$ | -        | 51    | 51       |   | $\vdash$      | -          | -        | +             | -             | -        | +       | 4 | -         |            | $\rightarrow$ | +       | -        | ⊢        | -             | $\rightarrow$ | 4        | -        |
| 2     | 2        | Ξ       | Н        | _ | _        | Н   | Н        | Н      | $\rightarrow$ | -        | 52    | 52       | Ξ | $\vdash$      | -          | -        | -             | -             | -        | -       | 4 | $\vdash$  | 102        | -             | +       | -        | -        | -             | $\rightarrow$ | -        | -        |
| 3     | 3        | Ξ       | Н        | _ | _        | Н   | Н        | Н      | $\rightarrow$ | 4        | 53    | 53       | Ξ | $\dashv$      | -          | -        | _             | -             | -        | _       | 4 | $\vdash$  | 103        | -             | +       | -        | ⊢        | -             | $\rightarrow$ | -        | -        |
| 4     | 4        | Ξ       | ш        |   | ш        | Ш   | ш        | Ш      | $\perp$       | _        | 54    | 54       | Ξ | $\perp$       | _          | _        | _             | _             | 4        | _       | 1 |           | 104        | _             | _       | $\perp$  | _        | _             | $\rightarrow$ | 4        | _        |
| 5     | 5        | =       | Ш        |   |          | Ш   | ш        |        | $\perp$       | _        | 55    | 55       | = | $\perp$       | _          | _        | _             | 4             | 4        | _       | 1 |           | 105        | _             | _       | $\perp$  | ╙        | _             | $\perp$       | _        | _        |
| 6     | 6        | =       | Ш        |   |          | Ш   | ш        |        | $\perp$       | _        | 56    | 56       | = | $\perp$       | _          | _        | _             | _             | 4        | $\perp$ | 1 |           | 106        | _             | $\perp$ |          | ╙        | $\vdash$      | $\perp$       | _        | _        |
| 7     | 7        | =       |          |   |          | ш   | Ш        |        | $\perp$       | _        | 57    | 57       | = | $\perp$       | _          | _        | _             | _             | 4        | _       | 1 |           | 107        | _             | _       | $\perp$  | _        |               | $\perp$       | _        | _        |
| 8     | 8        | =       | ш        |   |          |     | Ш        |        | $\Box$        | _        | 58    | 58       | = | $\Box$        | _          | _        | _             | _             | _        | $\perp$ | 1 |           | 108        | _             |         | $\perp$  |          |               | $\perp$       |          | _        |
| 9     | 9        | =       | Ш        |   |          |     | Ш        |        |               | _        | 59    | 59       | = |               | _          | _        | _             | _             | _        | $\perp$ | 1 |           | 109        | _             | $\perp$ | $\perp$  |          | ┖             |               | _        | _        |
| 10    | 10       | =       |          |   |          |     |          |        |               |          | 60    | 60       | = |               |            |          |               |               |          |         | J |           | 110        |               |         |          |          |               |               |          | Ш        |
| 11    | 11       | =       |          |   |          |     |          |        | Ш             | _]       | 61    | 61       | = | П             |            |          |               | I             |          |         | 1 |           | 111        |               |         | ┖        | 1        |               |               |          |          |
| 12    | 12       | =       |          |   |          |     |          | $\Box$ | Ш             | _        | 62    | 62       | = | Ш             | $_{\perp}$ |          | $\Box$        |               |          |         | 1 |           | 112        | $\perp$       |         | L        |          |               |               |          | Ш        |
| 13    | 13       | =       |          |   |          |     |          |        |               |          | 63    | 63       | = |               |            |          |               |               |          | T       | J |           | 113        |               | T       | $\Box$   | Г        |               |               |          | ╝        |
| 14    | 14       | =       |          |   |          |     | L        |        | ш             | _]       | 64    | 64       | = |               | _7         |          | J             | IJ            | J        |         |   |           | 114        | J             |         | L        | L        | Ľ             | ╚             | J        |          |
| 15    | 15       | =       | П        |   |          |     | $\Box$   | $\Box$ |               |          | 65    | 65       | = |               | ⊐          | ⊐        | J             | J             | J        | I       | ] |           | 115        | J             | I       | $\Box$   |          |               |               | J        | I        |
| 16    | 16       | =       | П        | П |          | П   | Π        | П      | П             | ٦        | 66    | 66       | = | П             | П          | Т        | Т             | Т             | T        | Т       | 1 |           | 116        | Т             | Т       | Г        | П        | Г             | П             | T        | ٦        |
| 17    | 17       | Ξ       | П        |   |          | П   | П        | П      | П             | Π.       | 67    | 67       | Ξ | П             | $\neg$     | $\neg$   | T             | $\neg$        | 7        | $\top$  | 7 |           | 117        | T             | Т       | Т        | Т        |               | П             | 7        | $\neg$   |
| 18    | 18       | =       | П        |   |          |     | П        |        | T             | 7        | 68    | 68       | = | П             | $\neg$     | $\neg$   | $\neg$        | $\neg$        | 7        |         | 1 |           | 118        | T             |         | Т        | П        |               |               | 7        | ╛        |
| 19    | 19       | Ξ       |          |   |          |     | П        | П      |               | ┥.       | 69    | 69       | Ξ | $\neg$        | $\neg$     | $\neg$   | _             | $\neg$        | _        | $\top$  | 1 |           | 119        |               |         |          |          | $\overline{}$ |               | _        | ┑        |
| 20    | 20       | =       |          |   |          |     | П        | П      |               | ヿ        | 70    | 70       | Ξ | $\neg$        | $\neg$     | $\neg$   | _             | $\neg$        | _        | $\top$  | 1 |           | 120        |               |         |          | -        | $\overline{}$ | $\Box$        | _        | ┑        |
| 21    | 21       | =       | Н        |   |          | Н   | Н        | Н      | $\vdash$      | ┥.       | 71    | 71       | Ξ | $\vdash$      | ┪          | $\dashv$ | _             | $\dashv$      | 7        | $\pm$   | 1 |           | 121        | $\neg$        | +       | 1        | 1        | $\vdash$      | $\vdash$      | _        | ⊣        |
| 22    | 22       | =       |          |   |          | Н   | Н        | Н      | $\dashv$      | ┥.       | 72    | 72       | Ξ | $\vdash$      | ┪          | $\dashv$ | _             | $\dashv$      | 7        | $\pm$   | 1 |           | 122        | $\neg$        | +       | +        | 1        | $\vdash$      | $\vdash$      | _        | $\dashv$ |
| 23    | 23       | =       | Н        |   |          | Н   | Н        | Н      | $\vdash$      | _        | 73    | 73       | Ξ | $\vdash$      | ┪          | $\dashv$ | _             | _             | +        | -       | 1 | -         | 123        | $^{+}$        | _       | +        | 1        |               | $\vdash$      | _        | ⊣        |
| 24    | 24       | =       | Н        |   |          | Н   | Н        | Н      | $\vdash$      | -        | 74    | 74       | = | $\vdash$      | $\dashv$   | $\dashv$ | $\dashv$      | $\dashv$      | +        | +       | + | -         | 124        | $\rightarrow$ | +       | +        | +        | $\vdash$      | $\vdash$      | +        | $\dashv$ |
| 25    | 25       | =       | Н        |   |          | Н   | Н        | Н      | $\vdash$      | -        | 75    | 75       | = | $\vdash$      | $\dashv$   | $\dashv$ | $\dashv$      | $\dashv$      | $\dashv$ | +       | 1 | -         | 125        | $\rightarrow$ | _       | +        | -        | $\vdash$      | $\vdash$      | _        | $\dashv$ |
| 26    | 26       | =       | Н        |   |          | Н   | Н        | Н      | $\vdash$      | -        | 76    | 76       | - | $\vdash$      | $\dashv$   | $\dashv$ | $\dashv$      | $\dashv$      | $\dashv$ | +       | ┨ | $\vdash$  | 126        | +             | +       | +        | +        |               | $\vdash$      | $\dashv$ | $\dashv$ |
| 27    | 27       | =       | Н        | - |          | Н   | Н        | Н      | $\vdash$      | -        | 77    | 77       | - | $\vdash$      | $\dashv$   | $\dashv$ | $\dashv$      | $\dashv$      | $\dashv$ | +       | ┨ | $\vdash$  | 127        | +             | +       | +        | +        | Н             | $\vdash$      | $\dashv$ | $\dashv$ |
| 28    | 28       | =       | Н        | - | _        | Н   | Н        | Н      | $\vdash$      | -        | 78    | 78       | ÷ | $\vdash$      | $\dashv$   | $\dashv$ | $\dashv$      | $\dashv$      | +        | +       | ┨ | $\vdash$  | 128        | +             | +       | +        | ⊢        | Н             | $\vdash$      | +        | $\dashv$ |
| 29    | 29       | =       | Н        | - | Н        | Н   | Н        | Н      | $\dashv$      | -        | 79    | 79       | - | $\vdash$      | $\dashv$   | $\dashv$ | $\rightarrow$ | $\dashv$      | +        | +       | - | $\vdash$  | 129        | +             | +       | +        | +        | $\vdash$      | $\vdash$      | +        | $\dashv$ |
| 30    | 30       | =       | Н        | - |          | Н   | Н        | Н      | +             | -        | 80    | 80       | = | $\vdash$      | $\dashv$   | $\dashv$ | +             | $\dashv$      | +        | +       | - | $\vdash$  | 130        | $\rightarrow$ | +       | +        | ⊢        | $\vdash$      | $\vdash$      | +        | $\dashv$ |
| 31    | 31       | =       | Н        | - | _        | Н   | Н        | Н      | $\vdash$      | -        | 81    | 81       | = | $\vdash$      | $\dashv$   | $\dashv$ | +             | $\dashv$      | +        | +       | 4 | $\vdash$  | 131        | $\rightarrow$ | +       | +        | ⊢        |               | $\vdash$      | $\dashv$ | $\dashv$ |
|       | 32       |         | Н        | - | Н        | Н   | Н        | Н      | $\vdash$      | -        |       |          |   | $\vdash$      | -          | -        | $\rightarrow$ | $\rightarrow$ | +        | +       | 4 | -         |            | $\rightarrow$ | +       | +        | -        | ⊢             | $\rightarrow$ | -        | $\dashv$ |
| 32    |          | =       | -        | - | Н        | Н   | Н        | Н      | $\rightarrow$ | -        | 82    | 82       | = | $\rightarrow$ | -          | -        | -             | $\rightarrow$ | +        | +       | 4 | -         | 132        | $\rightarrow$ | +       | +        | ╌        | -             | $\rightarrow$ | -        | $\dashv$ |
| 33    | 33       | =       | Н        | _ | Н        | Н   | $\vdash$ | Н      | $\vdash$      | -        | 83    | 83       | = | Н             | -          | -        | -             | $\rightarrow$ | +        | +       | 4 | $\vdash$  | 133        | +             | +       | +        | +        | -             | Н             | -        | $\dashv$ |
| 34    | 34       | ٥       | Н        | _ | ш        | Н   | Н        | Н      | Н             | -        | 84    | 84       | Ξ | Н             | -1         | -        | 4             | -             | -        | +       | 4 | $\vdash$  | 134        | +             | +       | ╀        | ⊢        | -             | Н             | 4        | -        |
| 35    | 35       | =       | $\vdash$ | _ | $\vdash$ | Н   | $\vdash$ | Н      | Н             |          | 85    | 85       | Ξ | Н             | _          | _        | _             | -             | -        | +       | 4 | $\vdash$  | 135        | +             | +       | +        | -        | -             | Н             | _        | -        |
| 36    | 36       | Ξ       | $\vdash$ | _ | ш        | Н   | $\vdash$ | Н      | Н             | 4        | 86    | 86       | Ξ | Н             | -          | -        | _             | -             | -        | +       | 4 | $\vdash$  | 136        | 4             | +       | +        | $\vdash$ | -             | Н             | 4        | -        |
| 37    | 37       | Ξ       | $\vdash$ | _ | $\vdash$ | Н   | $\vdash$ | Н      | Н             | 4        | 87    | 87       | Ξ | Н             | _          | _        | 4             | _             | 4        | $\perp$ | 4 | $\vdash$  | 137        | 4             | +       | +        | $\vdash$ | _             | Ц             | 4        | _        |
| 38    | 38       | =       |          | _ |          | Ш   | $\vdash$ | Ш      |               | _        | .88   | 88       | Ξ | Ш             | _          | _        | _             | $\perp$       | _        | _       | 1 |           | 138        | 4             | $\perp$ | ┺        | _        | _             |               | _        | _        |
| 39    | 39       | =       | Ш        |   |          | Ш   | ш        | Ш      | Ш             | _        | 89    | 89       | Ξ | Ш             |            |          |               |               | _        | _       | 1 | <u></u>   | 139        |               | $\perp$ | L        |          | L.            |               |          |          |
| 40_   | 40       | =       |          |   |          | Ш   | $\vdash$ | Ш      |               | _        | 90    | 90       | = |               | _          | _        | _             | _             | _        | _       | 1 |           | 140        | _             |         | 1_       | 1        | _             |               |          | ᅵ        |
| 41    | 41       | =       | Ш        |   |          | Ш   | Ш        | Ш      | Ш             | _        | 91    | 91       | = | Ш             | $\perp$    |          | _             | $\perp$       | _        | _ _     | 1 |           | 141        | 4             | _ _     | 1_       | 1        | _             | Ш             |          | ᅬ        |
| 42    | 42       | z       | Ш        |   |          | Ш   |          | Ш      | Ш             | _        | 92    | 92       | × | Ш             |            |          |               |               |          |         | 1 | $\square$ | 142        | $\perp$       |         | ┖        |          |               |               |          | Ш        |
| 43    | 43       | 2       |          |   |          | L   | ┖        | L      | LŢ            | ╝        | 93    | 93       | 2 | Ш             | I          |          |               |               |          | 1       | J |           | 143        |               | 1       | $\Gamma$ |          |               | LĪ            |          | ╝        |
| 44    | 44       | =       | П        | П |          | ΙП  | 1        | ΙП     | П             | ٦        | 94    | 94       | = | П             | ٦          | Т        | Т             | Т             | Т        | Т       | 1 |           | 144        | T             | Т       | Г        | Г        | Γ             | П             | Т        | ٦        |
| 45    | 45       | z       | П        |   |          |     | П        |        | П             | 7        |       | 95       |   | П             | $\neg$     | $\neg$   | $\neg$        | $\neg$        | $\neg$   |         | 7 |           | 145        | T             | Т       | Т        | Т        |               |               | 7        | $\neg$   |
| 46    | 46       | =       | П        |   |          |     | П        | П      | $\Box$        | 7        |       | 96       |   | $\Box$        | $\neg$     | $\neg$   | $\neg$        | $\neg$        | 7        |         | 1 |           | 146        | $\top$        |         | Т        |          |               | $\Box$        | 7        | $\neg$   |
| 47    | 47       | =       |          |   |          |     |          |        |               | 7        |       | 97       |   | П             | $\neg$     | $\neg$   |               | $\neg$        | 1        |         | 1 |           | 147        | 1             |         | T        |          |               |               |          | ╛        |
| 48    | 48       | =       | Н        | _ |          | Н   | П        | П      | $\vdash$      | 1        |       | 98       | Н | $\vdash$      | $\dashv$   | $\dashv$ | _             | $\dashv$      | _        | $\pm$   | 1 |           | 148        | $^{+}$        | +       | t        |          |               | $\vdash$      | _        | $\dashv$ |
| 49    | 49       | =       | Н        |   |          | Н   | Н        | Н      | $\forall$     | _        |       | 99       | Н | $\vdash$      | $\dashv$   | $\dashv$ | _             | $\dashv$      | +        | +       | 1 |           | 149        | $^{+}$        | +       | +        | $\vdash$ | $\vdash$      | $\vdash$      | _        | $\dashv$ |
| 50    | 50       | =       | Н        |   |          | Н   | Н        | Н      | $\forall$     | $\dashv$ | -     | 100      | Н | $\vdash$      | $\dashv$   | $\dashv$ | +             | $\dashv$      | +        | +       | 1 | $\vdash$  | 150        | +             | +       | +        | 1        | $\vdash$      | $\vdash$      | -        | $\dashv$ |
| w     | JU       |         | $\vdash$ | _ |          | -   | _        | ш      | ш             |          |       | 1100     |   | ш             |            |          |               | _             | _        |         | _ | $\Box$    | 130        | _             | _       | _        | _        | _             | $\perp$       | _        |          |